

ATCC

10801 University Blvd • Manassas, VA 20110-2209 • Telephone: 703-365-2700 • FAX: 703-365-2745

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT ISSUED PURSUANT TO RULE 7.3 AND VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

To: (Name and Address of Depositor or Attorney)

Boliang Cao
333 Bostwick Avenue NE
Grand Rapids, MI 49503

Deposited on Behalf of: The Van Andel Research Institute

Identification Reference by Depositor:

Patent Deposit Designation

Mouse anti-human Met extracellular domain monoclonal antibody: 2F6-B7-A11 PTA-4349

The deposit was accompanied by: ☐ a scientific description ☐ a proposed taxonomic description indicated above.

The deposit was received May 14, 2002 by this International Depository Authority and has been accepted.

AT YOUR REQUEST: ☒ We will inform you of requests for the strain for 30 years.

The strain will be made available if a patent office signatory to the Budapest Treaty certifies one's right to receive, or if a U.S. Patent is issued citing the strain, and ATCC is instructed by the United States Patent & Trademark Office or the depositor to release said strain.

If the culture should die or be destroyed during the effective term of the deposit, it shall be your responsibility to replace it with living culture of the same.

The strain will be maintained for a period of at least 30 years from date of deposit, or five years after the most recent request for a sample, whichever is longer. The United States and many other countries are signatory to the Budapest Treaty.

The viability of the culture cited above was tested May 16, 2002. On that date, the culture was viable.

International Depository Authority: American Type Culture Collection, Manassas, VA 20110-2209 USA.

Signature of person having authority to represent ATCC:

Marie Harris
Marie Harris, Patent Specialist, ATCC Patent Depository

Date: May 29, 2002

cc: Sandy Livnat
(Ref: Docket or Case No.: VAI-9)

EXHIBIT A

ATCC

10901 University Blvd • Manassas, VA 20110-2209 • Telephone: 703-365-2700 • FAX: 703-365-2745

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT ISSUED PURSUANT TO RULE 7.3 AND VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

To: (Name and Address of Depositor or Attorney)

The Van Andel Research Institute
Attn: Boliang Cao
333 Bostwick Avenue, NE
Grand Rapids, MI 49503

Deposited on Behalf of: The Van Andel Research Institute

Identification Reference by Depositor:

Patent Deposit Designation

Mouse anti-human Met extracellular domain monoclonal antibody: 3A11-A8 PTA-4477

The deposit was accompanied by: ☐ a scientific description ☐ a proposed taxonomic description indicated above.

The deposit was received June 21, 2002 by this International Depository Authority and has been accepted.

AT YOUR REQUEST: ☒ We will inform you of requests for the strain for 30 years.

The strain will be made available if a patent office signatory to the Budapest Treaty certifies one's right to receive, or if a U.S. Patent is issued citing the strain, and ATCC is instructed by the United States Patent & Trademark Office or the depositor to release said strain.

If the culture should die or be destroyed during the effective term of the deposit, it shall be your responsibility to replace it with living culture of the same.

The strain will be maintained for a period of at least 30 years from date of deposit, or five years after the most recent request for a sample, whichever is longer. The United States and many other countries are signatory to the Budapest Treaty.

The viability of the culture cited above was tested June 25, 2002. On that date, the culture was viable.

International Depository Authority: American Type Culture Collection, Manassas, VA 20110-2209 USA.

Signature of person having authority to represent ATCC:

Marie Harris

Date: July 16, 2002

Marie Harris, Patent Specialist, ATCC Patent Depository

cc: Sandy Livnat
(Ref: Docket or Case No.: VAI-9)

ATCC

10801 University Blvd • Manassas, VA 20110-2209 • Telephone: 703-365-2700 • FAX: 703-365-2745

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT ISSUED PURSUANT TO RULE 7.3
AND VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

To: (Name and Address of Depositor or Attorney)

Boliang Cao
333 Bostwick Avenue, NE
Grand Rapids, MI 49503

Deposited on Behalf of: The Government of the United States of America as represented by the Secretary,
Department of Health and Human Services

Identification Reference by Depositor:

Hybridoma cell line: 31D4-C9-D4
Hybridoma cell line: 15D7-B2
Hybridoma cell line: 1C10-F1-A11
Hybridoma cell line: 8H2-F2-B10
Hybridoma cell line: 13B1-E4-E10

Patent Deposit Designation

PTA-3412
PTA-3413
PTA-3414
PTA-3415
PTA-3416

The deposits were accompanied by: a scientific description, a proposed taxonomic description indicated above. The deposits were received May 30, 2001 by this International Depository Authority and have been accepted.

AT YOUR REQUEST: X We will inform you of requests for the strains for 30 years.

The strains will be made available if a patent office signatory to the Budapest Treaty certifies one's right to receive, or if a U.S. Patent is issued citing the strains, and ATCC is instructed by the United States Patent & Trademark Office or the depositor to release said strains.

If the cultures should die or be destroyed during the effective term of the deposit, it shall be your responsibility to replace them with living cultures of the same.

The strains will be maintained for a period of at least 30 years from date of deposit, or five years after the most recent request for a sample, whichever is longer. The United States and many other countries are signatory to the Budapest Treaty.

The viability of the cultures cited above was tested June 8, 2001. On that date, the cultures were viable.

International Depository Authority: American Type Culture Collection, Manassas, VA 20110-2209 USA.

Signature of person having authority to represent ATCC:


Tanya Nunnally, Patent Specialist, Patent Depository

Date: June 28, 2001

cc: Gwendolyn D. Spratt
(Ref: Docket or Case No.: 14014.0357P1)

Budapest Treaty Deposits

American Type Culture Collection

10801 University Blvd., Manassas, VA 20110-2209

Phone (703) 365-2700; fax (703) 365-2745; e-mail applied-sci@atcc.org

ATCC™

TO DEPOSIT OR TO CONVERT A DEPOSIT TO MEET THE REQUIREMENTS OF THE BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

ALL QUESTIONS MUST BE COMPLETED IN ENGLISH. PLEASE USE ONE FORM FOR EACH STRAIN DEPOSITED.

1. Name of deposit. If microorganism, give complete scientific name including genus and species and source of material; If virus, give name, whether plant or animal, and source including geographic location; if cell line, give tissue and species, geographical source of isolation, and any known hazards associated (HIV, EBV, etc.); If genetic materials, give name of organism from which vector, clone or library is derived, source of the DNA insert identified by species (e.g. human, mouse) or scientific name, and give name of gene and identity of the host organism; if consortia or mixed culture, each component of the mixture must be identified; if seeds, embryos, insect eggs, etc., give common name, scientific name, and geographical source.
Mouse anti-human Met extracellular domain monoclonal antibody
2. Strain designation (i.e., number, symbols, etc.) 2F6-B7-A11
 The strain designation must correspond with the vial labels.
3. Is this an original deposit under the Budapest Treaty? Yes
4. Is this a request for a conversion of a deposit already at ATCC to meet the requirements of the Budapest Treaty? If so please indicate ATCC designation. No
5. Is this deposit a mixture of microorganisms or cells? No
6. Provide details necessary to cultivate, test for viability, and store deposit. If mixture, provide description of components and a method to check presence. If plasmid, provide name of host and antibiotic resistance. Frozen in liquid Nitrogen with 90% FBS/10% DMSO. Culture medium: Opti-Mem containing 10% FBS, 2 mM L-Glutamine, (1% Antibiotics and 0.1% β -Mercaptoethanol from GIBCO-BRL)
7. Provide sufficient description so that ATCC may confirm deposit properties (e.g., Gram negative rod).
 - a. If deposit is a cell culture, is it being cultured in the presence of antibiotics? If so, please list the antibiotics.
Yes. 100 units/ml penicillin G and 100 μ g/ml streptomycin
 - b. If deposit is hybridoma, what is the isotype of antibody produced? Mouse IgG 2b/k
8. Is this strain hazardous to humans? No Animals? No Plants? No. If yes, what is the recommended biosafety level for working with this strain? _____. (Refer to Biosafety in Microbiological and Biomedical Laboratories, 4th ed. U.S. Dept. of Health and Human Services at www.cdc.gov/od/ohs/biosfty/bmb14/bmb14toc.htm).
9. Availability: Prior to the issuance of a U.S. Patent, ATCC will only make a culture available as instructed by the depositor or relevant patent office. Samples must be provided to a specific investigator if a pertinent patent office under the Budapest Treaty instructs ATCC to do so. The following questions must be answered:
 - a) As of date of deposit or conversion to meet the requirements of the Budapest Treaty, do you wish the deposit to be made available to anyone who requests a culture? If yes there are no restrictions on distribution. Answering no will ensure the deposit is not available until the patent has issued. Yes _____ No ✓
 - b) As of date of deposit or conversion to meet the requirements of the Budapest Treaty, do you wish the deposit to be made available to requestors which satisfy patent offices in countries not signatory to the Budapest Treaty? Yes _____ No ✓
 If yes state which countries. _____

Please note that if you are converting your deposit to meet the requirements of the Budapest Treaty and your deposit has already been released for distribution due to the issuance of a U.S. patent, you cannot restrict it from further distribution.

After a U.S. patent issues and we are so notified, ATCC makes the culture available to anyone who requests it, as allowed under USPTO Rules and Regulations (37 CFR 1.808 [a][2]).

10. ATCC will notify you of your ATCC number after confirmation of viability testing is complete.

Name of individual to notify: Boliang Cao

Fax: (616) 234-5343

Phone: (616) 234-5342

E-mail: brian.cao@vai.org

11. Payment by check, or credit card (Mastercard, VISA or American Express), must accompany the deposit unless prior arrangements for billing have been made and approved. ATCC accepts Purchase Orders in the correct amount:

Purchase Order No. _____

Check No. _____

Credit Card number. Please indicate MasterCard VISA or AE. 4833 4920 0037 6941

Exp. Date: 11/2003

Name shown on card: Boliang Cao
(Please type or print clearly.)

Boliang Cao
Signature of card holder

PAYMENT: ATCC MUST HAVE A BILLING ADDRESS, CONTACT PERSON, PHONE AND FAX NUMBER FOR ALL DEPOSITS:

Boliang Cao

333 Bostwick Ave. NE

Grand Rapids, MI 49503

Phone: (616) 234-5342

Fax: (616) 234-5343

12. Name, address, telephone and facsimile number of your attorney of record. Sandy Livnat, Venable Law Firm
1201 New York Avenue, NW, Suite 1000, Washington, DC 20005-3917
(202) 216-8584 Fax: (202) 962-8300 (Ref: Docket or Case No. VAI-9)

13. **MUST BE COMPLETED.** Deposited on behalf of: (Verify with your management who owns the deposit. The owner is usually a company or institute and not an individual.) The Van Andel Research Institute

I understand and agree that the deposit may not be withdrawn by me for a period specified in Rule 9.1 of the Budapest Treaty (at least 30 years after the date of deposit or 5 years after the date of the most recent request for the deposit, whichever is longer), and that if a culture should die or be destroyed during the life of the patent or the period of time so specified, it is my responsibility to replace it with a living culture of the same organism or cell. In the cases of viruses, cell cultures, plasmids, embryos, and seeds, it is my responsibility to supply a sufficient quantity for distribution for the period of time specified above.

Boliang Cao
Typed Name

Boliang Cao
Signature

5/13/02
Date

Address: 333 Bostwick Ave. NE, Grand Rapids, MI 49503

Phone: (616) 234-5342 Fax: (616) 234-5343 E-mail: brian.cao@vai.org

ADDRESS SHIPMENTS AND FORM TO THE ATTENTION OF:

Patent Depository
American Type Culture Collection
10801 University Blvd.
Manassas, VA 20110-2209 U.S.A.

STORAGE: Cultures are stored for 30 years from date of deposit or 5 years after the last request for a sample, whichever is longer, as required under the rules of patent offices in most countries.

FEES: For current fees, check our Web site at www.atcc.org, request a fee sheet by e-mail to applied-sci@atcc.org, or call (703) 365-2700 ext. 320. All fees are subject to change.

ATCC USE ONLY: ATCC DESIGNATION _____ REC'D _____ V.T. RESULT _____

Name of Deposit _____ Strain Designation: _____

Budapest Treaty Deposits

American Type Culture Collection

10801 University Blvd., Manassas, VA 20110-2209

Phone (703) 365-2700; fax (703) 365-2745; e-mail applied-sci@atcc.org

ATCC™

TO DEPOSIT OR TO CONVERT A DEPOSIT TO MEET THE REQUIREMENTS OF THE BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

ALL QUESTIONS MUST BE COMPLETED IN ENGLISH. PLEASE USE ONE FORM FOR EACH STRAIN DEPOSITED.

1. Name of deposit. If **microorganism**, give complete scientific name including genus and species and source of material; if **virus**, give name, whether plant or animal, and source including geographic location; if **cell line**, give tissue and species, geographical source of isolation, and any known hazards associated (HIV, EBV, etc.); if **genetic materials**, give name of organism from which vector, clone or library is derived, source of the DNA insert identified by species (e.g. human, mouse) or scientific name, and give name of gene and identity of the host organism; if **consortia or mixed culture**, each component of the mixture must be identified; if **seeds, embryos, insect eggs, etc.**, give common name, scientific name, and geographical source.

mouse anti-human Met extracellular domain monoclonal antibody

2. Strain designation (i.e., number, symbols, etc.) 3A11-A8

The strain designation must correspond with the vial labels.

3. Is this an original deposit under the Budapest Treaty? Yes

4. Is this a request for a conversion of a deposit already at ATCC to meet the requirements of the Budapest Treaty? If so please indicate ATCC designation. No

5. Is this deposit a mixture of microorganisms or cells? No

6. Provide details necessary to cultivate, test for viability, and store deposit. If mixture, provide description of components and a method to check presence. If plasmid, provide name of host and antibiotic resistance. Frozen in liquid Nitrogen with 90% FBS/10% DMSO. Culture medium: Opti-Mem containing 10% FBS. 2mM L-Glutamine 1% Antibiotics and 0.1% β -Mercaptoethanol from Gibco-BRL

7. Provide sufficient description so that ATCC may confirm deposit properties (e.g., Gram negative rod).

- a. If deposit is a cell culture, is it being cultured in the presence of antibiotics? If so, please list the antibiotics.

Yes. 100 units/ml penicillin G and 100 ug/ml streptomycin

- b. If deposit is hybridoma, what is the isotype of antibody produced? mouse IgG 1/2

8. Is this strain hazardous to humans? No Animals? No Plants? No. If yes, what is the recommended biosafety level for working with this strain? _____. (Refer to Biosafety in Microbiological and Biomedical Laboratories, 4th ed. U.S. Dept. of Health and Human Services at www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm).

9. Availability: Prior to the issuance of a U.S. Patent, ATCC will only make a culture available as instructed by the depositor or relevant patent office. Samples must be provided to a specific investigator if a pertinent patent office under the Budapest Treaty instructs ATCC to do so. The following questions must be answered:

a) As of date of deposit or conversion to meet the requirements of the Budapest Treaty, do you wish the deposit to be made available to anyone who requests a culture? If yes there are no restrictions on distribution. Answering no will ensure the deposit is not available until the patent has issued. Yes ____ No ✓

b) As of date of deposit or conversion to meet the requirements of the Budapest Treaty, do you wish the deposit to be made available to requestors which satisfy patent offices in countries not signatory to the Budapest Treaty? Yes ____ No ✓
If yes state which countries. _____

Please note that if you are converting your deposit to meet the requirements of the Budapest Treaty and your deposit has already been released for distribution due to the issuance of a U.S. patent, you cannot restrict it from further distribution.

After a U.S. patent issues and we are so notified, ATCC makes the culture available to anyone who requests it, as allowed under USPTO Rules and Regulations (37 CFR 1.808 [a][2]).

10. ATCC will notify you of your ATCC number after confirmation of viability testing is complete.

Name of individual to notify: Boliang Cao
Fax: (616) 234-5343 Phone: (616) 234-5342 E-mail: brian.cao@vai.org

11. Payment by check, or credit card (Mastercard, VISA or American Express), must accompany the deposit unless prior arrangements for billing have been made and approved. ATCC accepts Purchase Orders in the correct amount:

Purchase Order No. _____ Check No. _____
Credit Card number. Please indicate MasterCard (VISA) or AE. 4833 4920 0037 6941
Exp. Date: 11/2003 Name shown on card: Boliang Cao
Boliang Cao (Please type or print clearly.)
Signature of card holder

PAYMENT: ATCC MUST HAVE A BILLING ADDRESS, CONTACT PERSON, PHONE AND FAX NUMBER FOR ALL DEPOSITS:

Boliang Cao
333 Bostwick Ave. NE
Grand Rapids MI 49503
Phone: (616) 234-5342 Fax: (616) 234-5343

12. Name, address, telephone and facsimile number of your attorney of record. Sandy Livnat, Venable Law Firm
1201 New York Ave. NW. Suite 1000 Washington, DC 20005-3917
(202) 216-8584. Fax: (202) 962-8300 (Ref: Docket or Case No. VAI-9)

13. **MUST BE COMPLETED.** Deposited on behalf of: (Verify with your management who owns the deposit. The owner is usually a company or institute and not an individual.) The Van Andel Research Institute

I understand and agree that the deposit may not be withdrawn by me for a period specified in Rule 9.1 of the Budapest Treaty (at least 30 years after the date of deposit or 5 years after the date of the most recent request for the deposit, whichever is longer), and that if a culture should die or be destroyed during the life of the patent or the period of time so specified, it is my responsibility to replace it with a living culture of the same organism or cell. In the cases of viruses, cell cultures, plasmids, embryos, and seeds, it is my responsibility to supply a sufficient quantity for distribution for the period of time specified above.

Boliang Cao Boliang Cao 6/12/2002
Typed Name Signature Date
Address: 333 Bostwick Ave. NE. Grand Rapids MI 49503
Phone: (616) 234-5342 Fax: (616) 234-5343 E-mail: brian.cao@vai.org

ADDRESS SHIPMENTS AND FORM TO THE ATTENTION OF:

Patent Depository
American Type Culture Collection
10801 University Blvd.
Manassas, VA 20110-2209 U.S.A.

STORAGE: Cultures are stored for 30 years from date of deposit or 5 years after the last request for a sample, whichever is longer, as required under the rules of patent offices in most countries.

FEES: For current fees, check our Web site at www.atcc.org, request a fee sheet by e-mail to applied-sci@atcc.org, or call (703) 365-2700 ext. 320. All fees are subject to change.

ATCC USE ONLY: ATCC DESIGNATION _____ REC'D _____ V.T. RESULT _____

Name of Deposit _____ Strain Designation: _____